

## CLAIMS:

1. A method of representing a video image based on a video signal by means of a projector which comprises an image display device and a high-pressure gas discharge lamp, which lamp is supplied with a square-wave alternating current (I0, I10) on which a current pulse (P1, P3, P10, P40) is superimposed before each phase reversal, characterized in that the alternating current (I0, I10) is superimposed with a second current pulse (P2, P4, P20, P30, P50, P60) of the same polarity.  
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2. A method as claimed in claim 1, characterized in that the current pulse (P2, P4, P20, P30, P50, P60) occurs periodically.  
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3. A method as claimed in claim 1, characterized in that the current pulse (P2, P4, P20, P30, P50, P60) occurs aperiodically.
4. A method as claimed in any one or several of the preceding claims 1 to 3, characterized in that the second current pulse (P2, P4, P20, P30, P50, P60) has the same contour as the current pulse (P1, P3, P10, P40) before the phase reversal.  
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5. A method as claimed in any one or several of the preceding claims 1 to 3, characterized in that the current pulse (P2, P4, P20, P30, P50, P60) has a pulse duration (tP2, tP20, tP30) that can be varied.  
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6. A method as claimed in any one or several of the preceding claims 1 to 3, characterized in that the current pulse (P2, P4, P20, P30, P50, P60) has an amplitude that can be varied.  
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7. A method as claimed in any one or several of the preceding claims 1 to 6, characterized in that the current pulse (P2, P4, P20, P30, P50, P60) lies within a time period given by the last 80% of the total duration of a half cycle.

8. A method as claimed in any one or several of the preceding claims 1 to 7, characterized in that the alternating current (I0, I10) is synchronized with the video signal.

9. A method as claimed in any one or several of the preceding claims 1 to 8,  
5 characterized in that the current pulse (P1, P2, P3, P4, P10, P20, P30, P40, P50, P60) takes place during a white segment (4, 8).

10. A method as claimed in any one or several of the preceding claims 1 to 8,  
10 characterized in that the current pulse (P1, P2, P3, P4, P10, P20, P30, P40, P50, P60) occurs during a transition (10, 11, 12, 13, 14) from one color to another.

11. A method as claimed in any one or several of the preceding claims 1 to 7, characterized in that the frequency of the alternating current (I0, I10) can be varied.

12. A projector for a method as claimed in one or several of the preceding claims  
15 1 to 11.

13. A projector for representing a video image based on a video signal, comprising  
20 an image display device and a high-pressure gas discharge lamp, which lamp is supplied with a square-wave alternating current (I0, I10) on which a current pulse (P1, P3, P10, P40) is superimposed before each phase reversal, characterized in that the alternating current (I0, I10) is superimposed with a second current pulse (P2, P4, P20, P30, P50, P60) of the same polarity.